

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended) A method for selecting and executing inverse discrete cosine transform (iDCT) algorithms reducing iDCT execution time, said method comprising the steps of:
  - a) examining the coefficients of a DCT block to determine the position of the End of Block (EOB) coefficient;
  - b) selecting an iDCT algorithm from the set consisting of: iDCT\_Normal, iDCT\_high, iDCT\_low, iDCT\_AC and iDCT\_DC; said algorithm determined by to be an iDCT low algorithm or an iDCT high algorithm according to the position of said EOB coefficient; and
  - c) executing said iDCT algorithm.
2. (original) The method of claim 1, wherein said iDCT\_high algorithm available to said method is determined by creating an EOB histogram of the first B-frame of a shot.
3. (original) The method of claim 1, wherein said iDCT\_low algorithm available to said method is determined by creating an EOB histogram of the first B-frame of a shot.
4. (currently amended) A system for reducing iDCT execution time, said system comprising:
  - a) determination means for determining the position of an End of Block (EOB) coefficient in a DCT block;
  - b) selection means for selecting an iDCT algorithm to be an iDCT\_low algorithm or an iDCT\_high algorithm based upon the position of said EOB coefficient; and
  - c) execution means for executing said iDCT algorithm.
5. (currently amended) The system of claim 4. A system for reducing iDCT execution time, said system comprising:
  - a) determination means for determining the position of an End of Block (EOB) coefficient in a DCT block;

b) selection means for selecting an iDCT algorithm based upon the position of said EOB coefficient; and

c) execution means for executing said iDCT algorithm;

wherein said iDCT algorithm is determined by creating an EOB histogram of the first B-frame of a shot.

6. (currently amended) A computer readable medium containing instructions for selecting and executing inverse discrete cosine transform (iDCT) algorithms reducing iDCT execution time, said instructions performing the steps of:

a) examining the coefficients of a DCT block to determine the position of the End of Block (EOB) coefficient;

b) selecting an iDCT algorithm from the set consisting of: iDCT\_Normal, iDCT\_high, iDCT\_low, iDCT\_AC and iDCT\_DC; said algorithm determined by to be an iDCT low algorithm or an iDCT high algorithm according to the position of said EOB coefficient; and

c) executing said iDCT algorithm.

7. (original) The method of claim 2 wherein said iDCT\_high algorithm is based upon an EOB coefficient of 39 or 40.

8. (original) The method of claim 3 wherein said iDCT\_low algorithm is based upon an EOB coefficient of 14 or 25.

9. (original) The medium of claim 6 wherein said iDCT\_high algorithm is based upon an EOB coefficient of 39 or 40.

10. (original) The medium of claim 6 wherein said iDCT\_low algorithm is based upon an EOB coefficient of 14 or 25.

11. (currently amended) A system for reducing iDCT execution time, said system comprising:

a) a plurality of iDCT algorithms comprising an iDCT\_high algorithm and an iDCT\_low algorithm;

b) a switch for selecting a selected algorithm from said plurality of iDCT algorithms;  
and  
c) a computer processor for executing said selected algorithm.

12. (currently amended) The system of claim 11 wherein said switch accepts as input:  
a) a block of DCT coefficients;  
b) an End of Block (EOB) address; and  
c) a picture type rate.

13. (currently amended) The system of claim 11 wherein said plurality of iDCT algorithms further comprises:

iDCT\_Normal, iDCT\_high, iDCT\_low, iDCT\_AC and iDCT\_DC.

14. (currently amended) The system of claim 13, A system for reducing iDCT execution time, said system comprising:

a) a plurality of iDCT algorithms comprising iDCT\_Normal, iDCT\_high, iDCT\_low, iDCT\_AC and iDCT\_DC;  
b) a switch for selecting a selected algorithm from said plurality of iDCT algorithms, wherein said switch accepts as input:  
1) a block of DCT coefficients;  
2) an End of Block (EOB) address; and  
3) a picture type rate; and  
c) a computer processor for executing said selected algorithm;  
wherein said iDCT\_high algorithm is selected based on an EOB value of 39 or 50.

15. (currently amended) The system of claim 13, A system for reducing iDCT execution time, said system comprising:

a) a plurality of iDCT algorithms comprising iDCT\_Normal, iDCT\_high, iDCT\_low, iDCT\_AC and iDCT\_DC;  
d) a switch for selecting a selected algorithm from said plurality of iDCT algorithms, wherein said switch accepts as input:  
1) a block of DCT coefficients;  
2) an End of Block (EOB) address; and  
3) a picture type rate; and

c) a computer processor for executing said selected algorithm;  
wherein said iDCT\_low algorithm is selected based upon an EOB value of 14 or 25.

16. (currently amended) The system of claim 13-A system for reducing iDCT execution time,  
said system comprising:

- a) a plurality of iDCT algorithms comprising iDCT\_Normal, iDCT\_high,  
iDCT\_low, iDCT\_AC and iDCT\_DC;
- e) a switch for selecting a selected algorithm from said plurality of iDCT algorithms,  
wherein said switch accepts as input:
  - 1) a block of DCT coefficients;
  - 2) an End of Block (EOB) address; and
  - 3) a picture type rate; and
- c) a computer processor for executing said selected algorithm;  
wherein said iDCT\_low and iDCT\_high algorithms are determined based upon an EOB histogram of the first B-Frame of a shot.

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